

इंटरनेट

मानक

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IS 5944 (1971): Accessories for Use in Shuttles for Jute Looms [TXD 14: Machinery for Fabric Manufacture]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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*Indian Standard*  
**SPECIFICATION FOR ACCESSORIES FOR USE  
IN SHUTTLES FOR JUTE LOOMS**

**1. Scope** — Prescribes requirements of accessories, such as offset tip, cover, cover lock, drag spring, pin and bristles.

**2. Requirements**

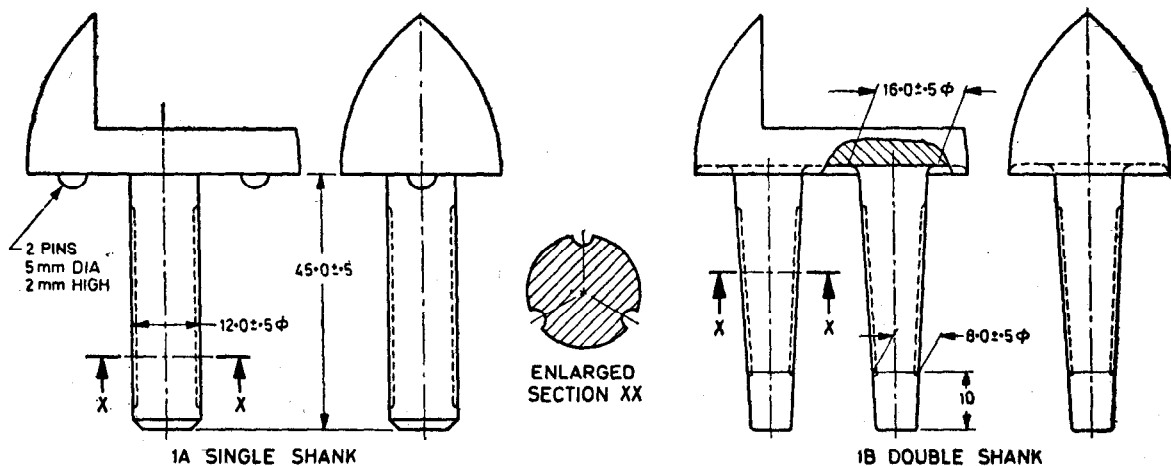
**2.1 Offset Tip** — Should be either single or double shank.

**2.1.1 Material**

**2.1.1.1 Single shank** — Low carbon steel.

**2.1.1.2 Double shank** — Malleable cast iron with hardness at flat and conical portion from 110 to 125 HRB. The shanks should be softer than the rest of the portion.

**2.1.2 Shape and Dimension** — The dimensions of the offset tip of a typical pattern shall conform to the applicable requirements given in Fig. 1.



All dimensions in millimetres.

FIG. 1 OFFSET SHUTTLE TIP

**2.2 Cover**

**2.2.1 Material** — Hot-rolled spring steel of 17 SWG case hardened at both ends up to approximately 10 cm from either end and having hardness between 40 to 50 HRC.

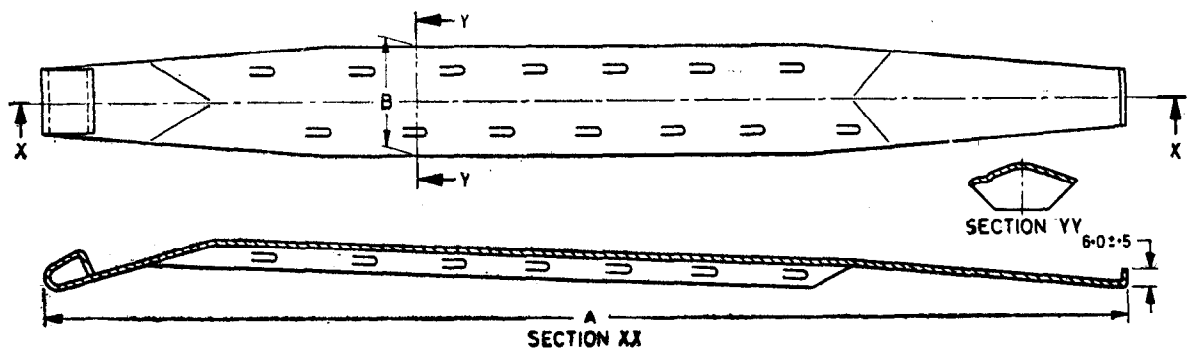
Adopted 30 January 1971

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2.2.2 *Shape and Dimension* — The dimensions of the cover of shuttle of a typical pattern shall conform to the applicable requirements given in Fig. 2.



All dimensions in millimetres.

|           | Length | Width |
|-----------|--------|-------|
|           | A      | B     |
|           | 381    | 38    |
|           | 406    | 38    |
|           | 432    | 38    |
|           | 457    | 38    |
| Tolerance | ±2.0   | ±1.0  |

FIG. 2 SHUTTLE COVER

2.3 *Cover Lock*

2.3.1 *Material* — Spring steel of 16 SWG.

2.3.2 *Shape* — A typical type of cover lock is shown in Fig. 3.

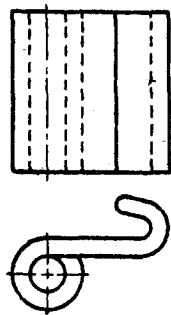


FIG. 3 COVER LOCK

2.4 *Drag Spring*

2.4.1 *Material* — Spring steel of 28 SWG having hardness between 38 to 40 HRC.

**2.4.2 Shape** — A typical type of drag spring is shown in Fig. 4.

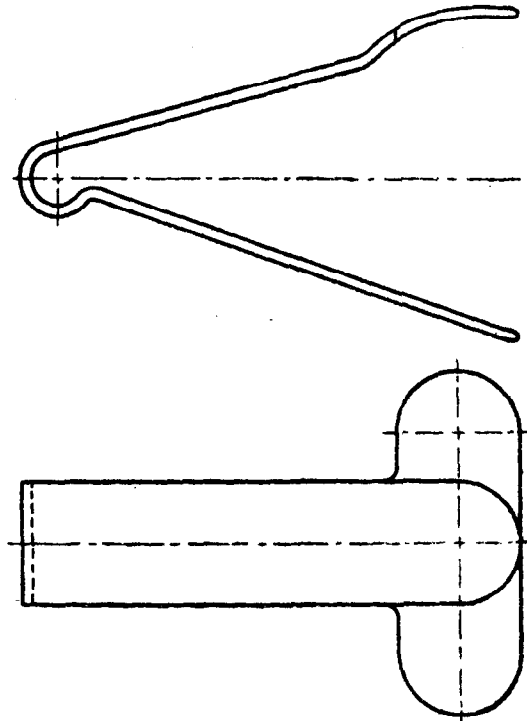


FIG. 4 DRAG SPRING

## 2.5 Eye

**2.5.1 Material** — It shall preferably be made of porcelain glazed inside or any other suitable material with smooth surface inside. The ends of the eye shall be rounded off.

**2.5.2 Shape** — A typical type of eye is shown in Fig. 5.

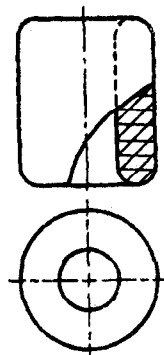


FIG. 5 EYE

**2.6 Pin** — Pins for cover and cover lock shall be made of 8 SWG steel wire. Other pins used in the shuttle may be made of steel wire of fine gauge or as agreed to between the buyer and the seller.

**2.7 Bristles** — Shall be of nylon monofilament.

**3. Marking** — Manufacturer's brand or trade-mark may be suitably marked on piece or on packet.

**3.1 ISI Certification Marking** — Details available from the Indian Standards Institution.